

## Abstract

*Spatial stress-strain state of small thickness radially - inhomogeneous cylindrical shell is investigated by the method of direct asymptotic integration of elasticity theory equations [1]. Homogeneous solutions are constructed. Asymptotic expansions of homogeneous solutions are obtained. The character of stress-strain state is explained on the basis of asymptotic analysis. It is shown that as in homogeneous case [2], it is formed of three types: internal stress state, simple fringe effect, boundary layer.*